Index of authors and papers

Acharya, R.N., see Sahu, T. 173 (1991) 257

Agasiev, A.A., Akhundov, Ch.G., Eivazova, G.M. and Mamedov, M.Z., Electro-conductivity of $SrTiO_3$ films with intergrain barriers 173 (1991) 419

Akhundov, Ch.G., see Agasiev, A.A. 173 (1991) 419

Al Usta, K., Dosch, H., Lied, A. and Peisl, J., Depth controlled grazing angle neutron diffraction 173 (1991) 65

Amatuni, L.E., see Constantinian, K.Y. 173 (1991) 313

Amatuni, L.E., Constantinian, K.Y., Hakhumian, A.A. and Hayrapetian, R.B., Phenomenon of vortex motion in HTSC thin film bridges, driven by DC and AC currents 173 (1991) 316

Amiell, J., see Chehab, S. 173 (1991) 211

Ankner, J.F., Majkrzak, C.F., Neumann, D.A., Matheny, A. and Flynn, C.P., Polarized neutron grazing angle diffraction 173 (1991) 89

Arendt, B.H., see Karim, A. 173 (1991) 17

Aronov, I.E. and Falko, V.L., Anomalous acoustic waves in metals in a magnetic field 173 (1991) 395

Aronov, I.E. and Falko, V.L., Static EMF in metals in the cyclotron resonance region 173 (1991) 398

Audier, M., see Leblanc, M. 173 (1991) 329

Auffret, S., Pierre, J., Lambert-Andron, B., Madar, R., Houssay, E., Schmitt, D. and Siaud, E., Magnetic properties versus crystal structure in heavy rare-earth silicides RSi_{2-x} 173 (1991) 265

Bagiev, V.E., see Vidadi, Yu.A. 173 (1991) 415

Bakhvalov, N.S., Kazacha, G.S., Likharev, K.K. and Serdyukova, S.I., Statics and dynamics of single-electron solitons in two-dimensional arrays of ultrasmall tunnel junctions 173 (1991) 319

Bari, A., see Das, T. 173 (1991) 239

Bezuglyi, E.V., Theory of zero sound in normal and superconducting metals 173 (1991) 401

Bezuglyi, E.V., Burma, N.G., Deineka, E.Yu. and Fil', V.D., Zero sound in metals 173 (1991) 405

Biensan, P., see Chehab, S. 173 (1991) 211

Brandt, N.B. and Kulbachinskii, V.A., Energy spectrum of Bi_2Te_3 intercalated by Li and Ba 173 (1991) 303

Brommer, P.E., A rule for counting neighbours in rare-earth transition metal compounds 173 (1991) 277

Burma, N.G., see Bezuglyi, E.V. 173 (1991) 405

Bush, S.A., Chernin, A., Komashko, V.A., Krivoy, G.S. and Zelenkevich, L.R., Hybrid DC resistive SQUID 173 (1991) 392

Chehab, S., Amiell, J., Biensan, P. and Flandrois, S., Two-dimensional ESR behaviour of $CrCl_3$ 173 (1991) 211

Chen, S.-H., see Zhou, X.-L. 173 (1991) 167
Chernin, A., see Bush, S.A. 173 (1991) 392
Colinet, C., see Manh, D.N. 173 (1991) 293
Composto, R.C., see Zhao, W. 173 (1991) 43
Composto, R.J., see Mansfield, T. 173 (1991) 207
Constantinian, K.Y., Amatuni, L.E., Hakhumian, A.A., Hayrapetian, R.B. and Martirossian, R.M., Microwave mixing processes in HTSC thin films 173 (1991) 313
Constantinian, K.Y., see Amatuni, L.E. 173 (1991) 316
Crowley, T.L., Lee, E.M., Simister, E.A. and Thomas, R.K., The use of contrast variation in the specular reflection of neutrons from interfaces 173 (1991) 143

Das, T., Bari, A., Nammalvar, T. and Joarder, R.N., Thermodynamic and structural aspects of liquid alkali alloys in the electron–ion plasma model 173 (1991) 239
Deineka, E.Yu., see Bezuglyi, E.V. 173 (1991) 405
Dmitriev, V.M., Zolochevskii, I.V. and Khristenko, E.V., Microwave-induced resistive state in a superconducting channel 173 (1991) 389
Dosch, H., see Al Usta, K. 173 (1991) 65
Drabkin, G.M., Neutron interferometry and the reflection of neutrons, a comment 173 (1991) 97

Eivazova, G.M., see Agasiev, A.A. 173 (1991) 419
Elzain, M.E., Magnetic structure of supersaturated iron–phosphorous BCC alloys 173 (1991) 251
Evans, M.W., Wagnière, G. and Woźniak, S., Molecular dynamics computer simulation of non-linear optical effects; electric polarisation due to optical rectification in a circularly polarised laser 173 (1991) 357

Falko, V.L., see Aronov, I.E. 173 (1991) 395
Falko, V.L., see Aronov, I.E. 173 (1991) 398
Farnoux, B., see Guiselin, O. 173 (1991) 113
Felcher, G.P., see Karim, A. 173 (1991) 17
Felcher, G.P., see Zhou, X.-L. 173 (1991) 167
Fil', V.D., see Bezuglyi, E.V. 173 (1991) 405
Flandrois, S., see Chehab, S. 173 (1991) 211
Flynn, C.P., see Ankner, J.F. 173 (1991) 89

Goyette, R., see Karim, A. 173 (1991) 17
Guiselin, O., Lee, L.T. and Farnoux, B., Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface 173 (1991) 113
Guseinov, Ya.Yu., see Vidadi, Yu.A. 173 (1991) 415

Hakhumian, A.A., see Constantinian, K.Y. 173 (1991) 313
Hakhumian, A.A., see Amatuni, L.E. 173 (1991) 316
Hamilton, W.A. and Pynn, R., The effect of surface roughness on the phase of neutrons specularly reflected at grazing incidence 173 (1991) 71
Hamilton, W.A., see Sivia, D.S. 173 (1991) 121
Hayrapetian, R.B., see Constantinian, K.Y. 173 (1991) 313
Hayrapetian, R.B., see Amatuni, L.E. 173 (1991) 316
Higgins, J.S., Routine analysis of neutron reflection experiments 173 (1991) 181
Hoai, G. D., see Manh, D.N. 173 (1991) 293

Houssay, E., see Auffret, S. 173 (1991) 265
Huang, Y.Y., see Karim, A. 173 (1991) 17
Hüttenbach, S., see Stamm, M. 173 (1991) 11

Iyengar, L.R., see Steyerl, A. 173 (1991) 47

Jha, B.N. and Thakur, K.P., A new interionic potential for ionic crystals 173 (1991) 408
Joarder, R.N., see Das, T. 173 (1991) 239
Jones, R.A.L., see Zhao, W. 173 (1991) 43

Kajita, K., see Nishio, Y. 173 (1991) 300
Karim, A., Arendt, B.H., Goyette, R., Huang, Y.Y., Kleb, R. and Felcher, G.P., An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source 173 (1991) 17
Kato, R., see Nishio, Y. 173 (1991) 300
Kazacha, G.S., see Bakhvalov, N.S. 173 (1991) 319
Khristenko, E.V., see Dmitriev, V.M. 173 (1991) 389
Kleb, R., see Karim, A. 173 (1991) 17
Kobayashi, A., see Nishio, Y. 173 (1991) 300
Kobayashi, H., see Nishio, Y. 173 (1991) 300
Komashko, V.A., see Bush, S.A. 173 (1991) 392
Korotkov, A.N. and Nazarov, Yu.V., Single-electron tunneling coexisting with the barrier suppression 173 (1991) 217
Kramer, E.J., see Zhao, W. 173 (1991) 43
Kramer, E.J., Depth profiling methods that provide information complementary to neutron reflectivity 173 (1991) 189
Krivoy, G.S., see Bush, S.A. 173 (1991) 392
Kulbachinskii, V.A., see Brandt, N.B. 173 (1991) 303
Kunz, K., see Stamm, M. 173 (1991) 35

Lambert-Andron, B., see Auffret, S. 173 (1991) 265
Le Bail, A., see Leblanc, M. 173 (1991) 329
Leblanc, M., Le Bail, A. and Audier, M., Crystalline phases related to the icosahedral Al–Li–Cu phase. A single crystal X-ray diffraction study of the tetragonal τ-$Al_{56}(Cu, Zn)_{11}Li_{33}$ phase 173 (1991) 329
Lee, E.M., see Crowley, T.L. 173 (1991) 143
Lee, L.T., see Guiselin, O. 173 (1991) 113
Lekner, J., Reflection theory and the analysis of neutron reflection data 173 (1991) 99
Lied, A., see Al Usta, K. 173 (1991) 65
Likharev, K.K., see Bakhvalov, N.S. 173 (1991) 319

Madar, R., see Auffret, S. 173 (1991) 265
Majkrzak, C.F., Polarized neutron reflectometry 173 (1991) 75
Majkrzak, C.F., see Ankner, J.F. 173 (1991) 89
Malik, S.S., see Steyerl, A. 173 (1991) 47
Mamedov, M.Z., see Agasiev, A.A. 173 (1991) 419
Manh, D.N., Hoai, G. D., Pasturel, A. and Colinet, C., Chemical short-range order and electronic structure in amorphous metal–metalloid alloys 173 (1991) 293

Mansfield, T., see Zhao, W. 173 (1991) 43
Mansfield, T., Stein, R.S., Composto, R.J., Rafailovich, M.H., Sokolov, J. and Schwarz, S.A., Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry 173 (1991) 207
Martirossian, R.M., see Constantinian, K.Y. 173 (1991) 313
Matheny, A., see Ankner, J.F. 173 (1991) 89
Mazurek, B., see Wozny, L. 173 (1991) 305
Mazurek, B., see Wozny, L. 173 (1991) 309

Nammalvar, T., see Das, T. 173 (1991) 239
Nayak, S.K., see Sahu, T. 173 (1991) 257
Nazarov, Yu.V., see Korotkov, A.N. 173 (1991) 217
Nelson, M., see Zhao, W. 173 (1991) 43
Neumann, D.A., see Ankner, J.F. 173 (1991) 89
Nishio, Y., Kajita, K., Kato, R., Kobayashi, A., Kobayashi, H. and Sasaki, W., Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x\text{-}DCNQI)_2Cu$ 173 (1991) 300

Pasturel, A., see Manh, D.N. 173 (1991) 293
Peisl, J., see Al Usta, K. 173 (1991) 65
Penfold, J., Instrumentation for neutron reflectivity 173 (1991) 1
Pierre, J., see Auffret, S. 173 (1991) 265
Pilipovich, I.V., see Zaporozhchenko, V.A. 173 (1991) 423
Proshin, J.N. and Useinov, N.Kh., The spin flip in the theory of magnetic breakdown: magnetoresistance 173 (1991) 386
Pynn, R., see Hamilton, W.A. 173 (1991) 71

Rafailovich, M.H., see Zhao, W. 173 (1991) 43
Rafailovich, M.H., see Mansfield, T. 173 (1991) 207
Rafiev, T.Yu., see Vidadi, Yu.A. 173 (1991) 415
Ranachowski, J., see Wozny, L. 173 (1991) 309
Reiter, G., see Stamm, M. 173 (1991) 11
Reiter, G., see Stamm, M. 173 (1991) 35
Roberts, T.M., Introduction to Schrödinger inverse scattering 173 (1991) 157

Sahu, T., Nayak, S.K. and Acharya, R.N., Diamagnetic and dielectric susceptibilities of III–V nitride compound semiconductors 173 (1991) 257
Sansone, M., see Zhao, W. 173 (1991) 43
Sasaki, W., see Nishio, Y. 173 (1991) 300
Schmitt, D., see Auffret, S. 173 (1991) 265
Schwarz, S.A., see Mansfield, T. 173 (1991) 207
Serdyukova, S.I., see Bakhvalov, N.S. 173 (1991) 319
Siaud, E., see Auffret, S. 173 (1991) 265
Simister, E.A., see Crowley, T.L. 173 (1991) 143
Sinha, S.K., Reflectivity using neutrons or X-rays? A critical comparison 173 (1991) 25
Sivia, D.S., Hamilton, W.A. and Smith, G.S., Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography 173 (1991) 121
Smith, G.S., see Sivia, D.S. 173 (1991) 121

Sokolov, J., see Zhao, W. 173 (1991) 43
Sokolov, J., see Mansfield, T. 173 (1991) 207
Stamm, M., Hüttenbach, S. and Reiter, G., TOREMA – A neutron reflectometer at Jülich 173 (1991) 11
Stamm, M., Reiter, G. and Kunz, K., The use of X-ray and neutron reflectometry for the investigation of polymeric thin films 173 (1991) 35
Stein, R.S., see Zhao, W. 173 (1991) 43
Stein, R.S., see Mansfield, T. 173 (1991) 207
Steyerl, A., Malik, S.S. and Iyengar, L.R., Specular and diffuse reflection and refraction at surfaces 173 (1991) 47
Świrkowicz, S., Spin-wave dispersion relation and density of states in transition-metal ultrathin films of various thicknesses 173 (1991) 284
Szeloch, R.F., see Wozny, L. 173 (1991) 305

Taranko, R., Quasiparticle electronic structure of the degenerate d-band Hubbard model 173 (1991) 223
Tarasov, Yu.V., Adiabatic approach for the low-temperature conductivity in one-dimensional disordered metals 173 (1991) 429
Thakur, K.P., see Jha, B.N. 173 (1991) 408
Thomas, R.K., see Crowley, T.L. 173 (1991) 143

Useinov, N.Kh., see Proshin, J.N. 173 (1991) 386

Viccaro, P.J., see Yun, W.B. 173 (1991) 199
Vidadi, Yu.A., Guseinov, Ya.Yu., Bagiev, V.E. and Rafiev, T.Yu., Peculiarities of jumping electroconductivity in bismuth oxide films 173 (1991) 415

Wagnière, G., see Evans, M.W. 173 (1991) 357
Wieczorek, K., see Wozny, L. 173 (1991) 305
Worcester, D.L., Solutions to the one-dimensional inverse scattering problem with missing phase information 173 (1991) 139
Woźniak, S., see Evans, M.W. 173 (1991) 357
Wozny, L., Mazurek, B., Wieczorek, K. and Szeloch, R.F., Factors limiting the critical current in high-temperature yttrium superconductors 173 (1991) 305
Wozny, L., Mazurek, B. and Ranachowski, J., Acoustic emission to accompany the superconducting transition of $YBa_2Cu_3O_x$ 173 (1991) 309

Yun, W.B. and Viccaro, P.J., Spatial resolution in depth-controlled surface sensitive X-ray techniques 173 (1991) 199

Zaporozhchenko, R.G., see Zaporozhchenko, V.A. 173 (1991) 423
Zaporozhchenko, V.A., Zaporozhchenko, R.G. and Pilipovich, I.V., Effect of nonequilibrium charge carriers on picosecond pulse absorption in crystalline silicon 173 (1991) 423
Zelenkevich, L.R., see Bush, S.A. 173 (1991) 392
Zhao, W., Zhao, X., Rafailovich, M.H., Sokolov, J., Mansfield, T., Stein, R.S., Composto, R.C., Kramer, E.J., Jones, R.A.L., Sansone, M. and Nelson, M., Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces 173 (1991) 43

Zhao, X., see Zhao, W. 173 (1991) 43
Zhou, X.-L., Felcher, G.P. and Chen, S.-H., Closed-form expressions for neutron and X-ray reflection and transmission coefficients of a one-dimensional profile 173 (1991) 167
Zolochevskii, I.V., see Dmitriev, V.M. 173 (1991) 389

Analytic subject index

Absorption resonances
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Acoustic waves, anomalous
– Anomalous acoustic waves in metals in a magnetic field - Aronov and Falko 173 (1991) 395
Acoustic waves, in magnetic field
– Anomalous acoustic waves in metals in a magnetic field - Aronov and Falko 173 (1991) 395
Acoustic waves, in metals
– Anomalous acoustic waves in metals in a magnetic field - Aronov and Falko 173 (1991) 395
Adhesion
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Adiabatic spin-flipper
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Adsorbed layer
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Adsorption isotherms
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Air–liquid interface
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Alkali alloys, liquid
– Thermodynamic and structural aspects of liquid alkali alloys in the electron–ion plasma model - Das et al. 173 (1991) 239
Amorphisation
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Amorphous alloys, Fe_xB_{1-x}
– Chemical short-range order and electronic structure in amorphous metal–metalloid alloys - Manh et al. 173 (1991) 293

Amphiphile
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Angular resolution
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Anomalous reflectivity
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Artificial superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Auger electron spectroscopy
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Auto-correlation function
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139

Band structure
– Quasiparticle electronic structure of the degenerate d-band Hubbard model - Taranko 173 (1991) 223
Bargmann potentials
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Bayesian spectral analysis
– Analysis of neutron reflectivity data: maximum entropy, — and speckle holography - Sivia et al. 173 (1991) 121
Beam divergence
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Bilayers
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
Bi_2O_3, electron transfer peculiarities
– Peculiarities of jumping electroconductivity in bismuth oxide films - Vidadi et al. 173 (1991) 415
Bi_2O_3 films
– Peculiarities of jumping electroconductivity in bismuth oxide films - Vidadi et al. 173 (1991) 415
Bi_2O_3 films, properties of
– Peculiarities of jumping electroconductivity in bismuth oxide films - Vidadi et al. 173 (1991) 415

Biological membranes
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
Bi_2Te_3, single crystals
– Energy spectrum of Bi_2Te_3 intercalated by Li and Ba - Brandt and Kulbachinskii 173 (1991) 303
Block copolymer
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Born–Landé model
– A new interionic potential for ionic crystals - Jha and Thakur 173 (1991) 408
Born–Mayer model
– A new interionic potential for ionic crystals - Jha and Thakur 173 (1991) 408
Bound states
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Bragg diffraction
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Buried interface
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25

Capillary wave
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Channel plate detector
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Co–Ti polarizing supermirrors
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
– Neutron interferometry and the reflection of neutrons, a comment - Drabkin 173 (1991) 97
Coherence length
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Collimating slit
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
Computer simulation, molecular dynamics
– Molecular dynamics computer simulation of non-linear optical effects; electric polarisation due to optical rectification in a circularly polarised laser - Evans et al. 173 (1991) 357
Configurational entropy of mixing
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Contrast variation
– The use of — in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143

– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
$CrCl_3$
– Two-dimensional ESR behaviour of — - Chehab et al. 173 (1991) 211
CRISP
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Critical angle
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Critical magnetic surface scattering
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Crystal structure, RSi_{2-x}
– Magnetic properties versus crystal structure in heavy rare-earth silicides RSi_{2-x} - Auffret et al. 173 (1991) 265
Crystal structure, τ-$Al_{56}(Cu,Zn)_{11}Li_{33}$
– Crystalline phases related to the icosahedral Al–Li–Cu phase. A single crystal X-ray diffraction study of the tetragonal τ-$Al_{56}(Cu, Zn)_{11}Li_{33}$ phase - Leblanc et al. 173 (1991) 329
Cu salts, properties of
– Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x–DCNQI)_2Cu$ - Nishio et al. 173 (1991) 300
Cut-off point
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Cyclotron parametric resonance
– Theory of zero sound in normal and superconducting metals - Bezuglyi 173 (1991) 401

DC R-SQUID
– Hybrid DC resistive SQUID - Bush et al. 173 (1991) 392
Debye–Bueche scattering function
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Density–density correlation
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
Depth resolution
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
DESIR
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Deuteration
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181

Dielectric function
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Diffuse scattering
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Distorted wave Born approximation (DWBA)
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
– The effect of surface roughness on the phase of neutrons specularly reflected at grazing incidence - Hamilton and Pynn 173 (1991) 71
$(DMe_{1-x}MeBr_x–DCNQI)_2Cu$
– Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x–DCNQI)_2Cu$ - Nishio et al. 173 (1991) 300
Dodecanol
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Dy–Y superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Dynamical theory
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47

Elastic scattering
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Electrical conductivity, 1d disordered metals
– Adiabatic approach for the low-temperature conductivity in one-dimensional disordered metals - Tarasov 173 (1991) 429
Electrical resistivity, intercalated Bi_2Te_3
– Energy spectrum of Bi_2Te_3 intercalated by Li and Ba - Brandt and Kulbachinskii 173 (1991) 303
Electro-optic devices
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Electroconductivity, $SrTiO_3$ films
– Electroconductivity of $SrTiO_3$ films with intergrain barriers - Agasiev et al. 173 (1991) 419
Electromagnetic waves
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Electron–ion plasma model
– Thermodynamic and structural aspects of liquid alkali alloys in the — - Das et al. 173 (1991) 239
Electronic structure in amorphous alloys
– Chemical short-range order and electronic structure in amorphous metal–metalloid alloys - Manh et al. 173 (1991) 293

Ellipsometry
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
EPDM rubber
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Er–Y superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
ESR
– Two-dimensional — behaviour of $CrCl_3$ - Chehab et al. 173 (1991) 211
EVA
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
Evanescent wave
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199

Fatty acids
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
Fe–Ag polarizing supermirrors
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Fe–Ge multilayers
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Fe–P alloys
– Magnetic structure of supersaturated iron–phosphorous BCC alloys - Elzain 173 (1991) 251
Fe–Si polarizing supermirrors
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Fermi liquid correlations
– Static EMF in metals in the cyclotron resonance region - Aronov and Falko 173 (1991) 398
First Born approximation
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Closed-form expressions for neutron and X-ray reflection and transmission coefficients of a one-dimensional profile - Zhou et al. 173 (1991) 167
Flux penetration in superconductors
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Form factor
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Forward recoil spectroscopy (FRES)
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189

Forward scattering
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Fractal dimension
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Frame overlap
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
Fredholm equation
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Fresnel's law
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Functional group
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189

GaAs / AlAs multilayers
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
Gadolinium film
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Gaussian height distribution
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
Gd–Dy superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Gd–Y superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Gel'fand–Levitan equation
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Gibbs equation
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Glass transition temperature
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
Graded interface
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– The effect of surface roughness on the phase of neutrons specularly reflected at grazing incidence - Hamilton and Pynn 173 (1991) 71
Gravity mirror refractometer
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Grazing angle diffraction
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
– Polarized neutron — - Ankner et al. 173 (1991) 89

Green's function
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Closed-form expressions for neutron and X-ray reflection and transmission coefficients of a one-dimensional profile - Zhou et al. 173 (1991) 167
Guinier scattering function
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181

Hall effect, intercalated Bi_2Te_3
– Energy spectrum of Bi_2Te_3 intercalated by Li and Ba - Brandt and Kulbachinskii 173 (1991) 303
Hamadard product
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
Heaviside step
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Height–height correlation
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Helmholtz equation
– Closed-form expressions for neutron and X-ray reflection and transmission coefficients of a one-dimensional profile - Zhou et al. 173 (1991) 167
Hexaoxyethylene ether
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
High-T_c superconductors
– Factors limiting the critical current in high-temperature yttrium superconductors - Wozny et al. 173 (1991) 305
– Acoustic emission to accompany the superconducting transition of $YBa_2Cu_3O_x$ - Wozny et al. 173 (1991) 309
– Microwave mixing processes in HTSC thin films - Constantinian et al. 173 (1991) 313
– Phenomenon of vortex motion in HTSC thin film bridges, driven by DC and AC currents - Amatuni et al. 173 (1991) 316
Hilbert transform
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Ho–Y superlattice
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
HTSC thin films
– Microwave mixing processes in — - Constantinian et al. 173 (1991) 313
– Phenomenon of vortex motion in HTSC thin film bridges, driven by DC and AC currents - Amatuni et al. 173 (1991) 316
Hubbard model
– Quasiparticle electronic structure of the degenerate d-band — - Taranko 173 (1991) 223
– Spin-wave dispersion relation and density of states in transition-metal ultrathin films of various thicknesses - Świrkowicz 173 (1991) 284

Hypercold neutrons
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47

Icosahedral AlLiCu
– Crystalline phases related to the icosahedral Al–Li–Cu phase. A single crystal X-ray diffraction study of the tetragonal τ-$Al_{56}(Cu, Zn)_{11}Li_{33}$ phase - Leblanc et al. 173 (1991) 329
III–V nitride compound semiconductors
– Diamagnetic and dielectric susceptibilities of — - Sahu et al. 173 (1991) 257
Inelastic scattering
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Instrumental background
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
Intercalation
– Energy spectrum of Bi_2Te_3 intercalated by Li and Ba - Brandt and Kulbachinskii 173 (1991) 303
Interdiffusion
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
Interface segregation
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– — in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Interfacial magnetic anisotropy
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Interfacial tension
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
Interference fringe
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– Neutron interferometry and the reflection of neutrons, a comment - Drabkin 173 (1991) 97
Interionic potential
– A new — for ionic crystals - Jha and Thakur 173 (1991) 408
Inverse Faraday effect
– Molecular dynamics computer simulation of non-linear optical effects; electric polarisation due to optical rectification in a circularly polarised laser - Evans et al. 173 (1991) 357
Inversion
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
– Closed-form expressions for neutron and X-ray reflection and transmission coefficients of a one-dimensional profile - Zhou et al. 173 (1991) 167
Inversion invariance
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121

Ionic crystals, properties of
– A new interionic potential for ionic crystals - Jha and Thakur 173 (1991) 408
IPNS
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
ISIS
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Isolated potential
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Isotopic substitution
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143

Kinematic theory
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143

Langmuir–Blodgett films
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Larmor frequency
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Lateral correlation length
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
Light-induced absorption
– Effect of nonequilibrium charge carriers on picosecond pulse absorption in crystalline silicon - Zaporozhchenko et al. 173 (1991) 423
Likelihood function
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Linear extinction length
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Lipids
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
Liquid surface
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47

Magnetic breakdown
– The spin flip in the theory of magnetic breakdown: magnetoresistance - Proshin and Useinov 173 (1991) 386
Magnetic glasses
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
Magnetic induction
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Polarized neutron grazing angle diffraction - Ankner et al. 173 (1991) 89
Magnetic profile
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Magnetic properties, organic conductors
– Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x\text{–}DCNQI)_2Cu$ - Nishio et al. 173 (1991) 300
Magnetic properties, RSi_{2-x}
– Magnetic properties versus crystal structure in heavy rare-earth silicides RSi_{2-x} - Auffret et al. 173 (1991) 265
Magnetic scattering length
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Magnetic structure, Fe–P alloys
– Magnetic structure of supersaturated iron–phosphorous BCC alloys - Elzain 173 (1991) 251
Magneto-optic Kerr effect (MOKE)
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Magnetoresistance
– The spin flip in the theory of magnetic breakdown: — - Proshin and Useinov 173 (1991) 386
Matrix method
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Maximum entropy (MaxEnt)
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Mean square roughness
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
Micro-wave induced resistance
– Microwave-induced resistive state in a superconducting channel - Dmitriev et al. 173 (1991) 389
MnF_2
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65
Model fitting
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Molecular dynamics, computer simulation
– Molecular dynamics computer simulation of non-linear optical effects; electric polarisation due to optical rectification in a circularly polarised laser - Evans et al. 173 (1991) 357
Monochromator
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11

Monomer
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Monotonic profiles
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Multilayer
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Multiple reflection
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47

Neutron Beam Split-core Reactor (NBSR)
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Neutron guide
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
Neutron moderator
– An automated neutron reflectometer(POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
Neutron-optical potential
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Neutron phase
– The effect of surface roughness on the phase of neutrons specularly reflected at grazing incidence - Hamilton and Pynn 173 (1991) 71
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Neutron interferometry and the reflection of neutrons, a comment - Drabkin 173 (1991) 97
Neutron reflectivity
– Instrumentation for — - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Neutron scattering amplitude
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Neutron spin polarizer
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Non-collinear magnetic structure
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Non-spin-flip processes (NSF)
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Nonlinear optical effects
– Molecular dynamics computer simulation of non-linear optical effects; electric polarisation due to optical rectification in a circularly polarised laser - Evans et al. 173 (1991) 357
Nuclear reaction analysis
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35

– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Null scattering solvent
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143

Off-specular scattering
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
1d disordered metals
– Adiabatic approach for the low-temperature conductivity in one-dimensional disordered metals - Tarasov 173 (1991) 429
Organic conductors
– Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x\text{–}DCNQI)_2Cu$ - Nishio et al. 173 (1991) 300

Patterson function
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
PDMS / toluene solution
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Penetration depth in superconductors
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
pH, effect of on adsorption
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Phase separation
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Phaseless Fourier problem
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Planar-stratified media
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Polarized neutron
– — reflectometry - Majkrzak 173 (1991) 75
– — grazing angle diffraction - Ankner et al. 173 (1991) 89
Polybromostyrene (PBrS)
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
Polyethylene (PE)
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Polyethylpropylene (PEP)
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189

Polymer concentration profile
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Polymer film
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Polymethylmethacrylate (PMMA)
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
Poly(styrene-co-acrylonitrile) (SAN)
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Polystyrene (PS)
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
Porod's law
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Position-sensitive detector
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
Posterior PDF
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
POSY
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Precession of the neutron moment
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Prior PDF
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Probability distribution function (PDF)
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121

Proteins
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
Pulsed neutron source
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17

Q range
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
Quasi particle density of states
– Quasiparticle electronic structure of the degenerate d-band Hubbard model - Taranko 173 (1991) 223

Radial distribution function
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Radius of gyration
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Raleigh approximation
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Rare earth–transition metal compounds
– A rule for counting neighbours in rare-earth transition metal compounds - Brommer 173 (1991) 277
Reciprocity principle
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Reflectometer
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– TOREMA – A neutron — at Jülich - Stamm et al. 173 (1991) 11
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
Refractive index
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
RSi_{2-x}, properties of
– Magnetic properties versus crystal structure in heavy rare-earth silicides RSi_{2-x} - Auffret et al. 173 (1991) 265
RSi_{2-x} (R = rare earth)
– Magnetic properties versus crystal structure in heavy rare-earth silicides RSi_{2-x} - Auffret et al. 173 (1991) 265

Satellite diffraction peaks
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Schrödinger equation
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Secondary ion mass spectroscopy (SIMS)
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Self-similar profile
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
Shannon's sampling theorem
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
Short-range order, Fe_xB_{1-x} glasses
– Chemical short-range order and electronic structure in amorphous metal–metalloid alloys - Manh et al. 173 (1991) 293
Shubnikov–de Haas effect, intercalated Bi_2Te_3
– Energy spectrum of Bi_2Te_3 intercalated by Li and Ba - Brandt and Kulbachinskii 173 (1991) 303
Si, crystalline
– Effect of nonequilibrium charge carriers on picosecond pulse absorption in crystalline silicon - Zaporozhchenko et al. 173 (1991) 423
Sigmoidal interface
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Silicon wafer
– Neutron and X-ray reflectivity measurements of polystyrene/polybromostyrene (PS/PBrS) interfaces - Zhao et al. 173 (1991) 43
Single-electron solitons
– Statics and dynamics of — in two-dimensional arrays of ultrasmall tunnel junctions - Bakhvalov et al. 173 (1991) 319
Single-electron tunneling
– — coexisting with the barrier suppression - Korotkov and Nazarov 173 (1991) 217
Slope–slope correlation
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Small angle scattering
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181
Sn thin films
– Microwave-induced resistive state in a superconducting channel - Dmitriev et al. 173 (1991) 389
Snell's law
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99

Sodium dodecyl sulphate (SDS)
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
Speckle holography
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and — - Sivia et al. 173 (1991) 121
Spectral bandwidth
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199
Specular reflection
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Spin-dependent reflectivity
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Spin-flip processes (SF)
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Spin-polarized low-energy electron diffraction (SPLEED)
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Spin-polarized photoemission
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
Spin waves, Ni films
– Spin-wave dispersion relation and density of states in transition-metal ultrathin films of various thicknesses - Świrkowicz 173 (1991) 284
SQUID
– Hybrid DC resistive — - Bush et al. 173 (1991) 392
$SrTiO_3$ films
– Electroconductivity of — with intergrain barriers - Agasiev et al. 173 (1991) 419
$SrTiO_3$ films, electroconductivity
– Electroconductivity of $SrTiO_3$ films with intergrain barriers - Agasiev et al. 173 (1991) 419
Static EMF in metals
– Theory of zero sound in normal and superconducting metals - Bezuglyi 173 (1991) 401
Step profiles
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Structure of amorphous metals
– Chemical short-range order and electronic structure in amorphous metal–metalloid alloys - Manh et al. 173 (1991) 293
Superconducting channel
– Microwave-induced resistive state in a — - Dmitriev et al. 173 (1991) 389
Superconducting interferometer
– Hybrid DC resistive SQUID - Bush et al. 173 (1991) 392
Superconductivity, $YBa_2Cu_3O_x$
– Factors limiting the critical current in high-temperature yttrium superconductors - Wozny et al. 173 (1991) 305
– Acoustic emission to accompany the superconducting transition of $YBa_2Cu_3O_x$ - Wozny et al. 173 (1991) 309
Supermirrors
– Polarized neutron reflectometry - Majkrzak 173 (1991) 75
– Neutron interferometry and the reflection of neutrons, a comment - Drabkin 173 (1991) 97

Surface enrichment
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Surface excess
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
– Depth profiling methods that provide information complementary to neutron reflectivity - Kramer 173 (1991) 189
– Interface segregation in copolymer blends measured by neutron reflection and secondary ion mass spectrometry - Mansfield et al. 173 (1991) 207
Surface melting
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Surface roughness
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Surface tension
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Surfactant
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Susceptibility, diamagnetic
– Diamagnetic and dielectric susceptibilities of III–V nitride compound semiconductors - Sahu et al. 173 (1991) 257
Susceptibility, dielectric
– Diamagnetic and dielectric susceptibilities of III–V nitride compound semiconductors - Sahu et al. 173 (1991) 257

τ-$Al_{56}(Cu,Zn)_{11}Li_{33}$
– Crystalline phases related to the icosahedral Al–Li–Cu phase. A single crystal X-ray diffraction study of the tetragonal τ-$Al_{56}(Cu, Zn)_{11}Li_{33}$ phase - Leblanc et al. 173 (1991) 329

Thermal properties, organic conductors
– Thermal and magnetic properties of organic metal $(DMe_{1-x}MeBr_x–DCNQI)_2Cu$ - Nishio et al. 173 (1991) 300
Thin films, Bi_2O_3
– Peculiarities of jumping electroconductivity in bismuth oxide films - Vidadi et al. 173 (1991) 415
Thin films, HTSC
– Microwave mixing processes in HTSC thin films - Constantinian et al. 173 (1991) 313
– Phenomenon of vortex motion in HTSC thin film bridges, driven by DC and AC currents - Amatuni et al. 173 (1991) 316
Thin films, Sn
– Microwave-induced resistive state in a superconducting channel - Dmitriev et al. 173 (1991) 389

Thin films, $SrTiO_3$
– Electroconductivity of $SrTiO_3$ films with intergrain barriers - Agasiev et al. 173 (1991) 419
Thin films, transition metal
– Spin-wave dispersion relation and density of states in transition-metal ultrathin films of various thicknesses - Świrkowicz 173 (1991) 284

^{3}He detector
– TOREMA – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Depth controlled grazing angle neutron diffraction - Al Usta et al. 173 (1991) 65

Time-of-flight (TOF)
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source - Karim et al. 173 (1991) 17
– Interpretation of neutron reflectivity data of polymer concentration profiles at the liquid/air interface - Guiselin et al. 173 (1991) 113
TOREMA
– — – A neutron reflectometer at Jülich - Stamm et al. 173 (1991) 11
Total reflection
– Instrumentation for neutron reflectivity - Penfold 173 (1991) 1
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Transition metal films
– Spin-wave dispersion relation and density of states in transition-metal ultrathin films of various thicknesses - Świrkowicz 173 (1991) 284
Translation invariance
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
Transmission coefficient
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Trimethyl ammonium bromide (TAB)
– The use of contrast variation in the specular reflection of neutrons from interfaces - Crowley et al. 173 (1991) 143
Truncation rod
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– Specular and diffuse reflection and refraction at surfaces - Steyerl et al. 173 (1991) 47
Tunnel junctions
– Statics and dynamics of single-electron solitons in two-dimensional arrays of ultrasmall — - Bakhvalov et al. 173 (1991) 319
Tunneling
– Statics and dynamics of single-electron solitons in two-dimensional arrays of ultrasmall tunnel junctions - Bakhvalov et al. 173 (1991) 319

2d ferromagnet
– Two-dimensional ESR behaviour of $CrCl_3$ - Chehab et al. 173 (1991) 211

Unimodular matrix
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99
Uniqueness problem
– Analysis of neutron reflectivity data: maximum entropy, Bayesian spectral analysis and speckle holography - Sivia et al. 173 (1991) 121
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139

Volterra equations
– Introduction to Schrödinger inverse scattering - Roberts 173 (1991) 157
Vortex motion
– Phenomenon of — in HTSC thin film bridges, driven by DC and AC currents - Amatuni et al. 173 (1991) 316

Welding / healing of polymers
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
Wentzel–Kramers–Brillouin (WKB) approximation
– Reflection theory and the analysis of neutron reflection data - Lekner 173 (1991) 99

X-ray diffraction
– Crystalline phases related to the icosahedral Al–Li–Cu phase. A single crystal — study of the tetragonal τ-$Al_{56}(Cu, Zn)_{11}Li_{33}$ phase - Leblanc et al. 173 (1991) 329
X-ray reflectivity
– Reflectivity using neutrons or X-rays? A critical comparison - Sinha 173 (1991) 25
– The use of X-ray and neutron reflectometry for the investigation of polymeric thin films - Stamm et al. 173 (1991) 35
– Spatial resolution in depth-controlled surface sensitive X-ray techniques - Yun and Viccaro 173 (1991) 199

$YBa_2Cu_3O_x$ superconductors
– Factors limiting the critical current in high-temperature yttrium superconductors - Wozny et al. 173 (1991) 305
– Acoustic emission to accompany the superconducting transition of $YBa_2Cu_3O_x$ - Wozny et al. 173 (1991) 309

Zero encoding
– Solutions to the one-dimensional inverse scattering problem with missing phase information - Worcester 173 (1991) 139
Zero sound, in magnetic field
– Zero sound in metals - Bezuglyi et al. 173 (1991) 405
Zero sound, in metals
– Static EMF in metals in the cyclotron resonance region - Aronov and Falko 173 (1991) 398
– Zero sound in metals - Bezuglyi et al. 173 (1991) 405
Zero sound, in superconductors
– Zero sound in metals - Bezuglyi et al. 173 (1991) 405
– Static EMF in metals in the cyclotron resonance region - Aronov and Falko 173 (1991) 398
Zimm scattering function
– Routine analysis of neutron reflection experiments - Higgins 173 (1991) 181